

(Practitioner's Docket No. IN-PAT00293/BC1-0067)

THE CLAIMS

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1. (Previously presented) A heat-curable thixotropic mixture containing allophanate groups comprising
 - (A) at least one oligomer and/or polymer that contains at least one allophanate group or contains at least one carbamate group and at least one allophanate group, and
 - (B) at least one thixotropic agent comprising a urea or a urea derivative prepared by reacting at least one amine and/or water with at least one polyisocyanate.
2. (Previously presented) The mixture of claim 1, wherein the at least one oligomer and/or polymer contain at least one allophanate group and further comprises a thixotropic agent (C) comprising at least one silica.
3. (Previously presented) The mixture of claim 1 further comprising
 - (D) at least one wetting agent.
4. (Previously presented) The mixture of claim 1, wherein the at least one of the oligomer and the polymer are each at least one of an addition (co)polymer of at least one ethylenically unsaturated monomer, a polyaddition resin, and a polycondensation resin, wherein the addition (co)polymer is at least one of a random (co)polymer, an alternating (co)polymer, and a block (co)polymer, and wherein the addition (co)polymer is at least one of linear, branched, and comb.
5. (Previously presented) The mixture of claim 4, wherein the addition (co)polymer is selected from the group consisting of (meth)acrylate copolymers and polyvinyl esters; and the polyaddition resin and polycondensation resin are each selected from the group consisting of polyesters, alkyds, polyurethanes,

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polylactones, polycarbonates, polyethers, epoxy resin-amine adducts, polyureas, polyamides, and polyimides.

6. (Previously presented) The mixture of claim 1, wherein the at least one amine is selected from the group consisting of acyclic aliphatic amines, aliphatic-aromatic amines, cycloaliphatic amines, aliphatic-cycloaliphatic amines, and cycloaliphatic-aromatic amines, wherein the at least one amine is a primary monoamine or a secondary monoamine.
7. (Previously presented) The mixture of claim 6, wherein the monoamine is selected from the group consisting of methoxypropylamine, benzylamine, and n-hexylamine.
8. (Previously presented) The mixture of claim 1, wherein the at least one polyisocyanate contains on average per molecule at least 1.8 isocyanate groups.
9. (Previously presented) The mixture of claim 1, wherein the at least one polyisocyanate is selected from the group consisting of hexamethylene diisocyanate and its oligomers.
10. (Currently amended) The mixture of claim 2, wherein the silica is a transparent silica selected from the group consisting of modified-hydrophilic or hydrophobic pyrogenic silicas, hydrophilic silicas, and hydrophobic silicas.
11. (Previously presented) The mixture of claim 3, wherein the at least one wetting agent (D) is selected from the group consisting of siloxanes, fluorine compounds, carboxylic half-esters, phosphates, polyacrylic acids, copolymers of polyacrylic acids, and polyurethanes.

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12. (Previously presented) The mixture of claim 1 further comprising at least one crosslinking agent containing on average per molecule at least two reactive functional groups which are complementary to allophanate groups.
13. (Previously presented) The mixture of claim 1, wherein the at least one of the oligomer and the polymer each contain on average per molecule at least one reactive functional group which is complementary to carbamate groups and allophanate groups.
14. (Previously presented) The mixture of claim 13, wherein the complementary reactive functional groups are selected from the group consisting of N-methylol groups and N-methylol ether groups.
15. (Previously presented) The mixture of claim 1 further comprising a crosslinking agent selected from the group consisting of blocked polyisocyanates, partially-blocked polyisocyanates, and unblocked polyisocyanates.
16. (Previously presented) A process for preparing the heat-curable thixotropic mixture of claim 1 comprising
 - I) mixing of the at least one oligomer and/or polymer (A) and the thixotropic agent (B), and optionally a silica, or
 - II) preparing the thixotropic agent (B) by reacting the at least one amine with the at least one polyisocyanate in the presence of the at least one oligomer and/or polymer (A), and optionally mixing in a silica.
17. (Previously presented) The mixture according to claim 1, wherein the mixture is selected from a group consisting of a coating material, an adhesive, and a sealing compound.

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18. (Previously presented) The material of claim 17, wherein the coating material is a clearcoat material.
19. (Previously presented) A method comprising applying the mixture of claim 17 to a substrate and forming at least one member selected from the group consisting of an automotive OEM finish, an automotive refinish, a building coating, a furniture coating, a window coating, a door coating, an industrial coating, a coil coating, a container coating, an electrical component impregnation, an electrical component coating, and a white goods coating.